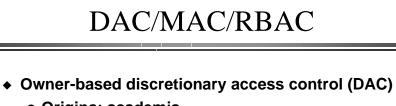
INFS 767 Secure Electronic Commerce Fall 1999

Lecture 2 RBAC

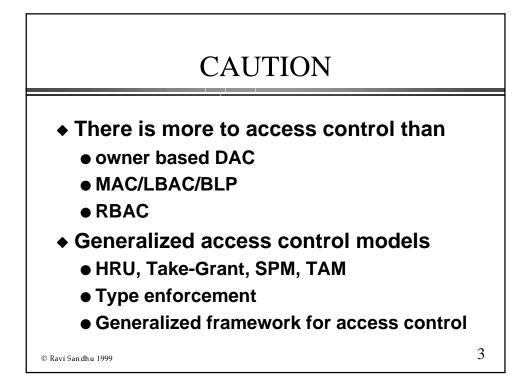
Prof. Ravi Sandhu

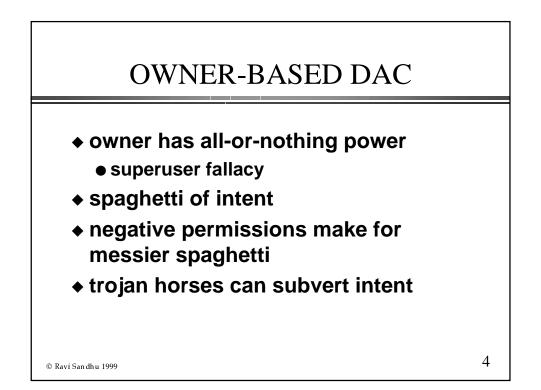


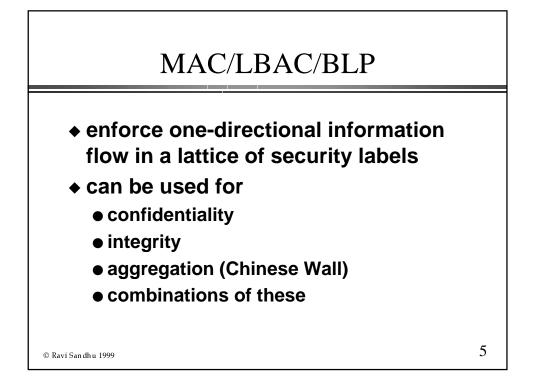
- Origins: academia
- Mandatory access control (MAC)
 - Origins: military
 - lattice-based access control (LBAC)
 - Bell-LaPadula (BLP) model
- Role based access control (RBAC)
 - Origins: business

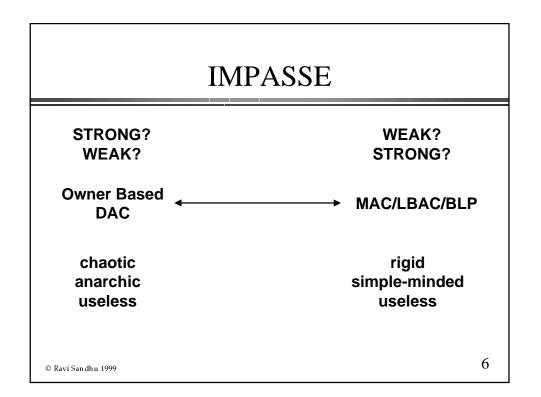
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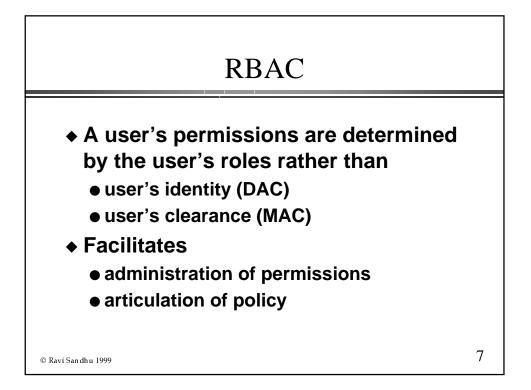
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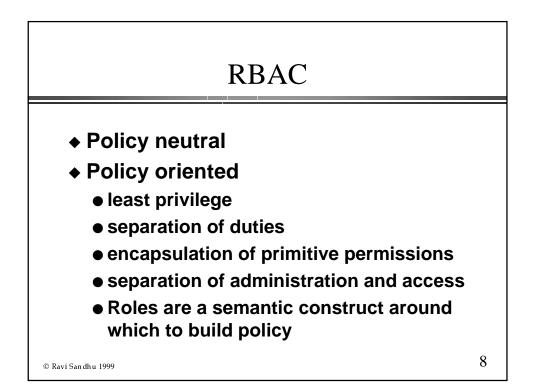


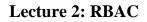


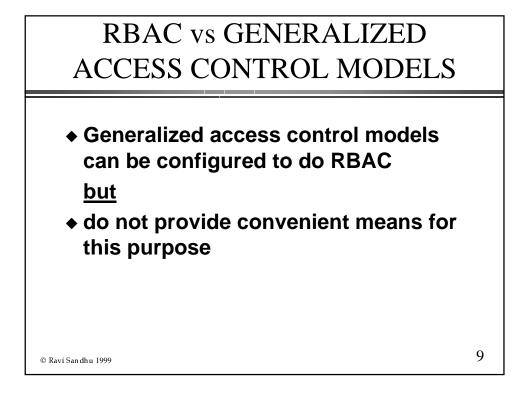


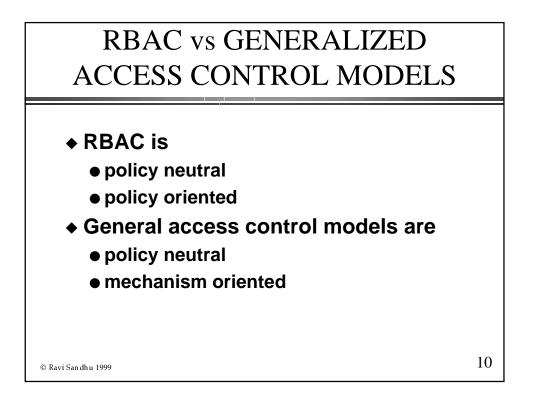


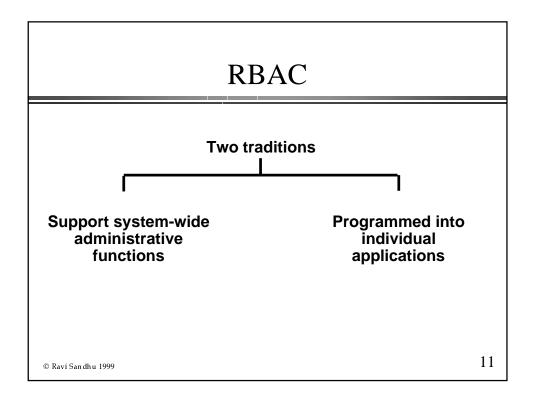


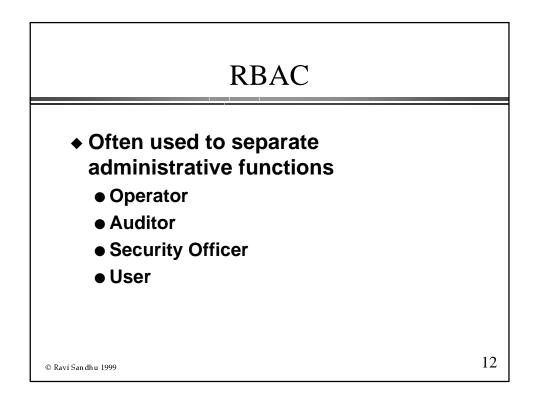


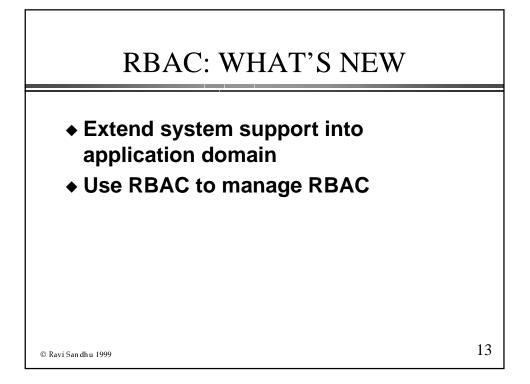


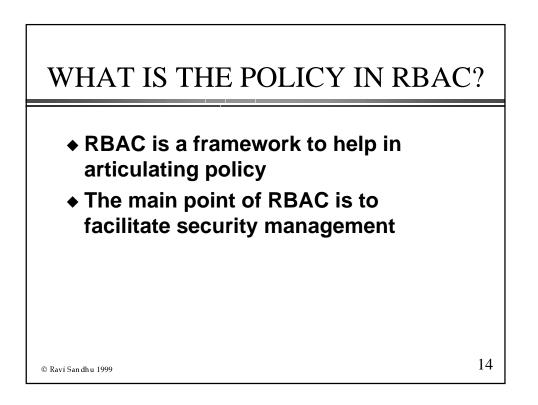


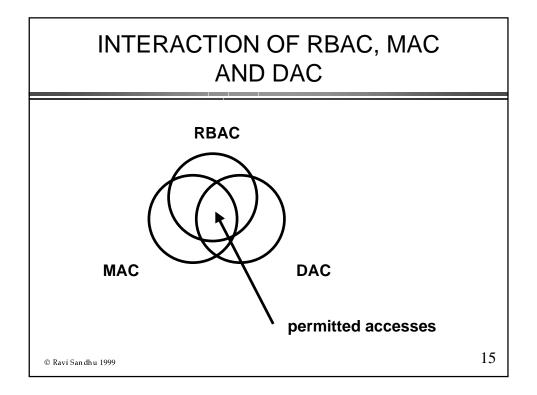


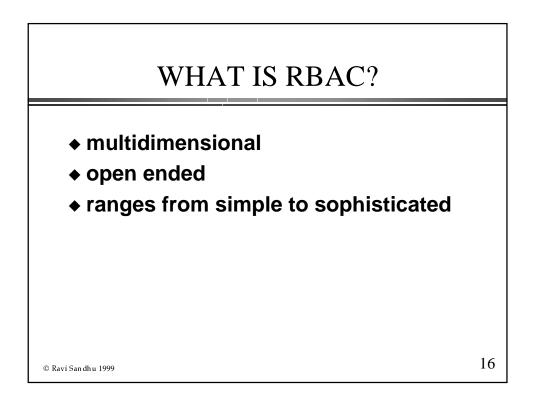


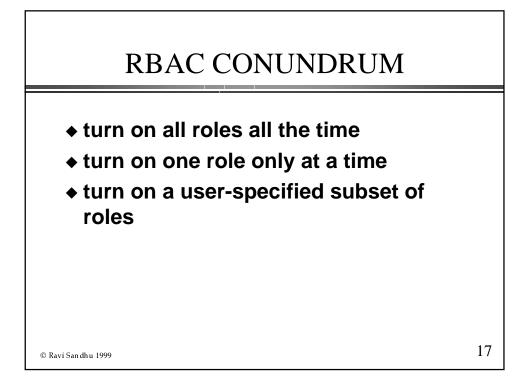


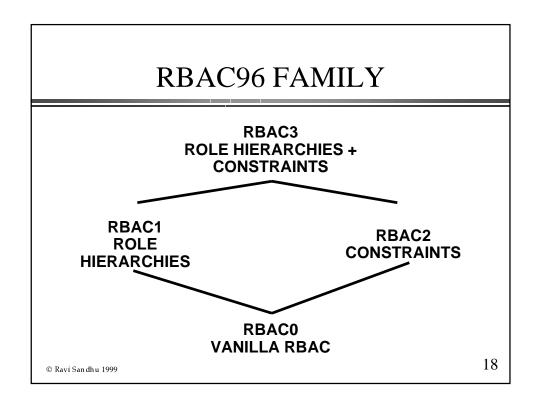


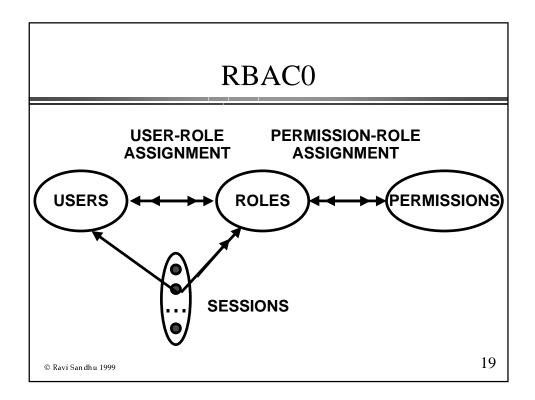


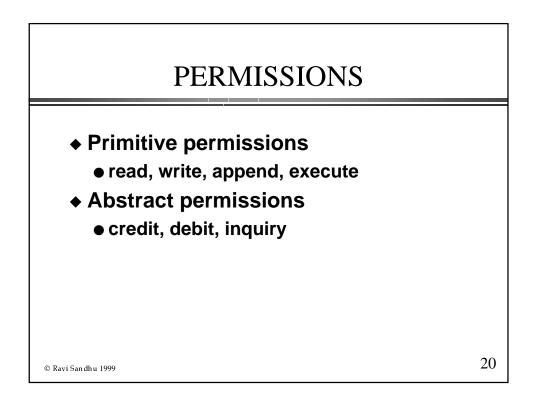


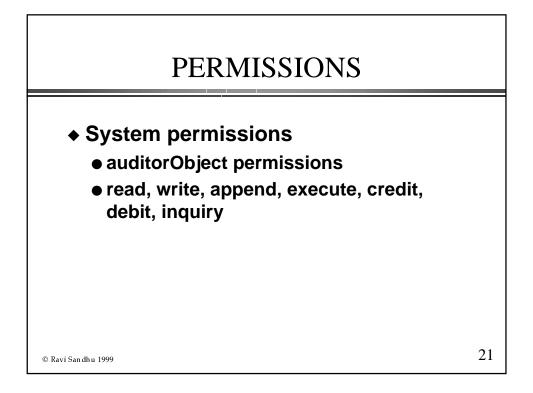


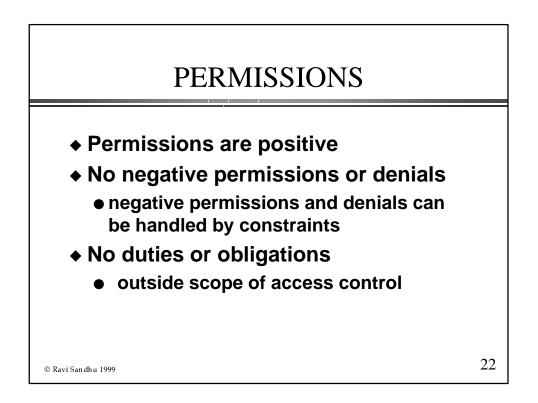


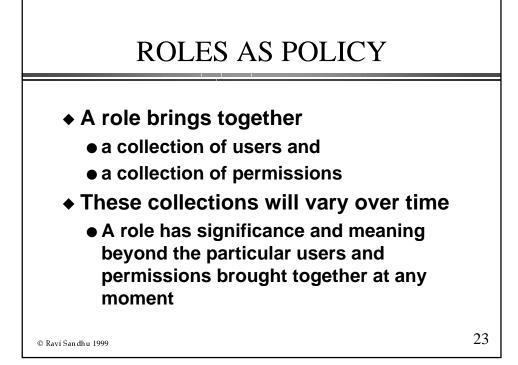


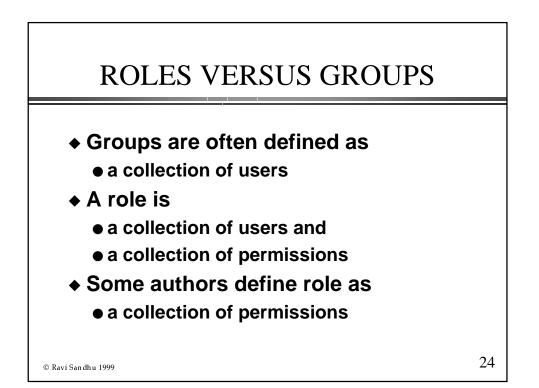


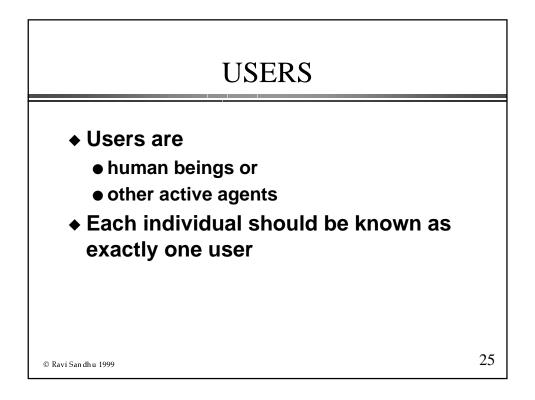


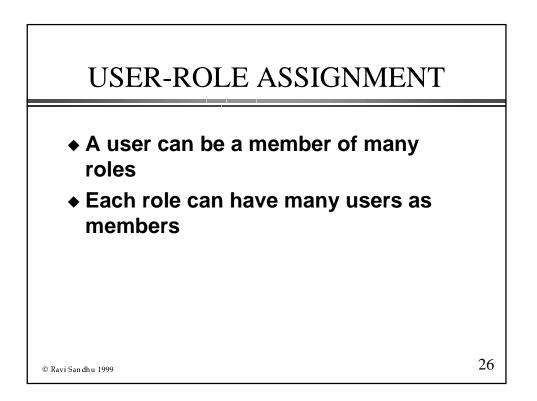


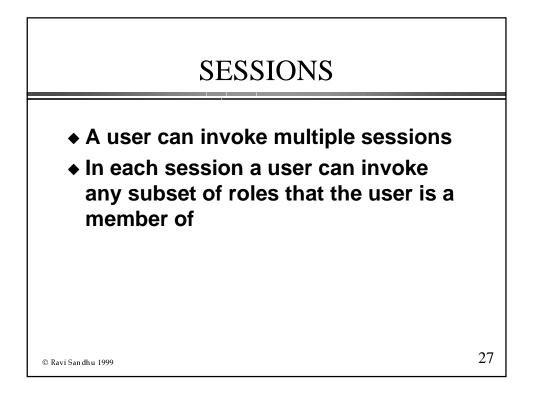


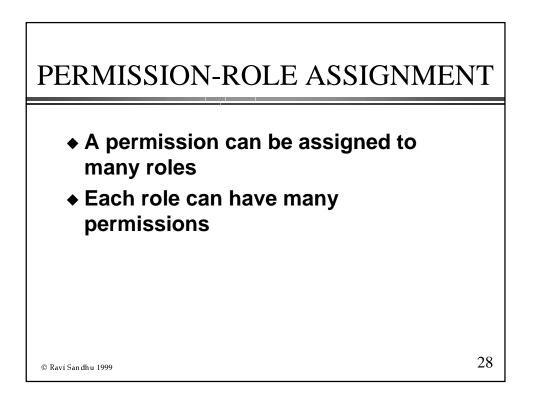


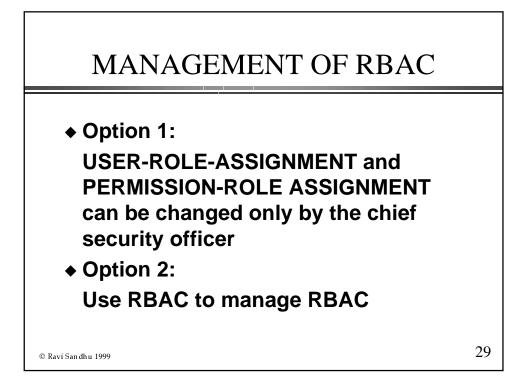


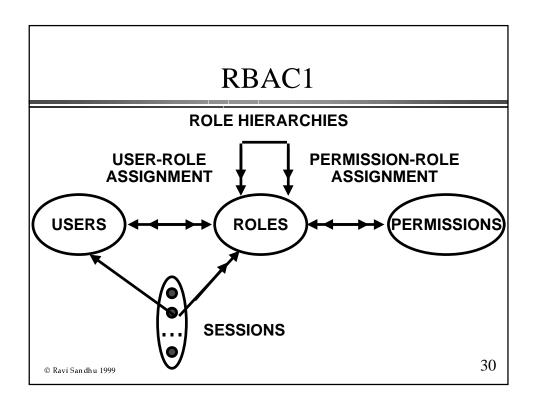


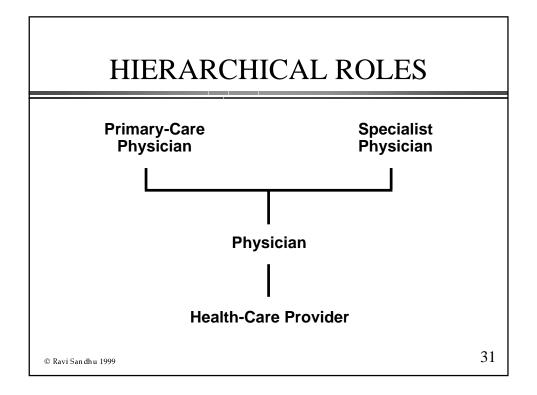


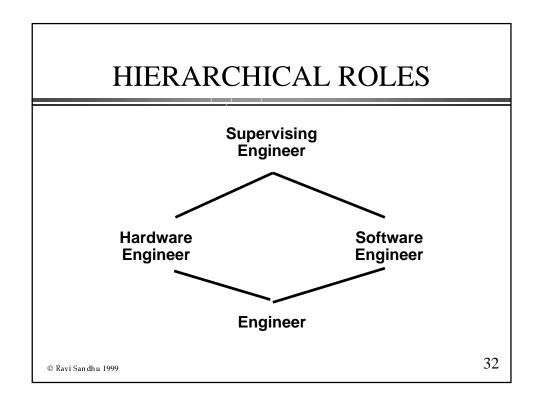


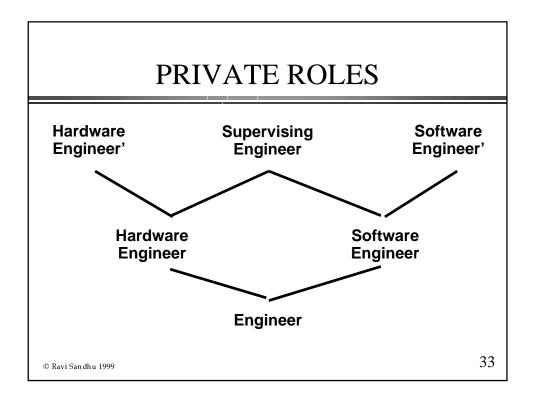


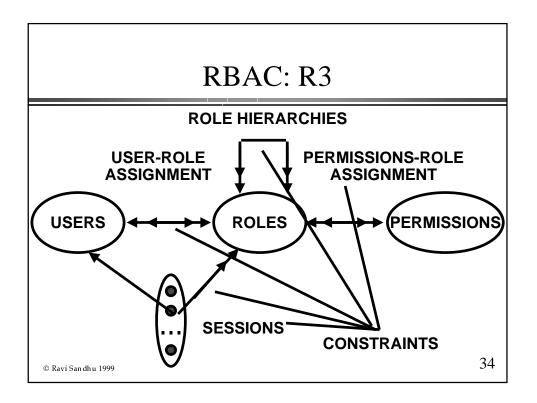


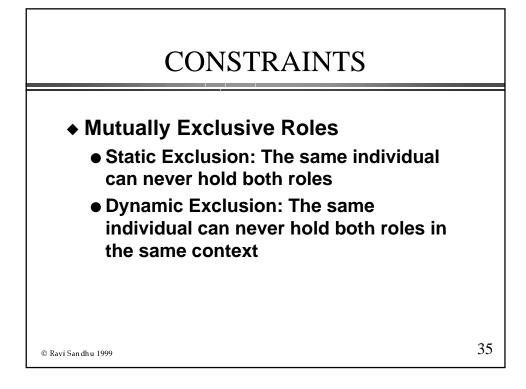


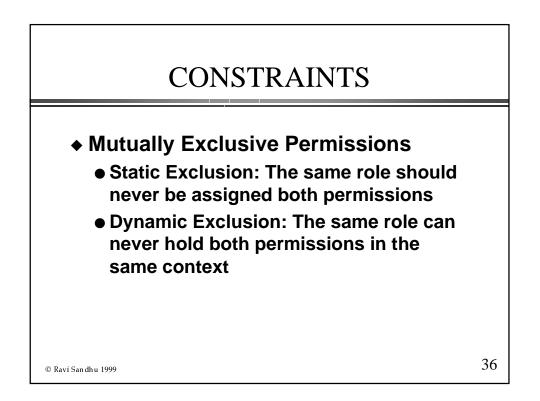


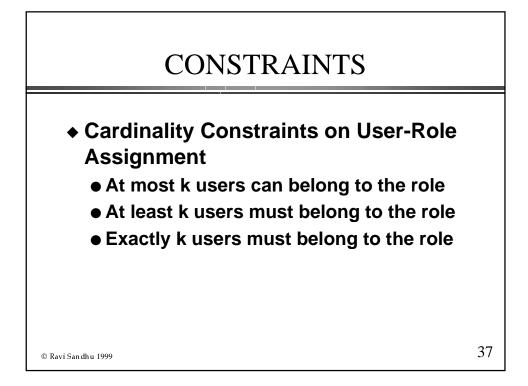


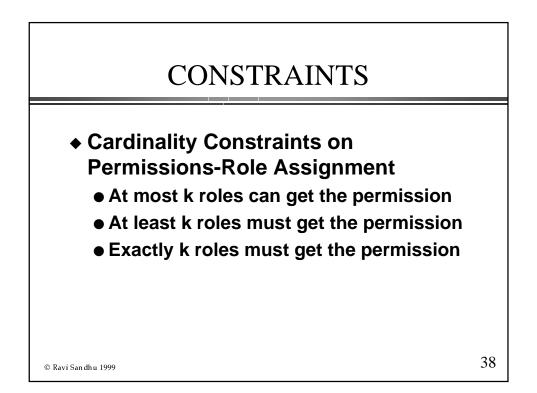












SCALE AND RATE OF CHANGE

- Hundreds of roles
- Thousands of users
- Frequent changes to
 - user-role assignment
 - permission-role assignment
- Less frequent changes for
 - role hierarchy

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